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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/614,196	07/08/2003	Takeyuki Suzuki	04208.0181	6357

7590 07/26/2004  
Finnegan, Henderson, Farabow,  
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Washington, DC 20005-3315

EXAMINER

GILMAN, ALEXANDER

ART UNIT	PAPER NUMBER
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2833

DATE MAILED: 07/26/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Office Action Summary</b>	Application No. 10/614,196	Applicant(s) SUZUKI ET AL.	
	Examiner Alexander D Gilman	Art Unit 2833	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 17 May 2004.
- 2a) ☒ This action is **FINAL**.                      2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-14 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☒ Claim(s) 13 and 14 is/are allowed.
- 6) ☒ Claim(s) 1,2,4-6 and 9-12 is/are rejected.
- 7) ☒ Claim(s) 7,8 is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All    b) ☐ Some \*    c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- |  |   |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892)   | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                                   | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)             |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)<br>Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____  |

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## DETAILED ACTION

### *Claim Rejections - 35 USC § 102*

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1, 2, are rejected under 35 U.S.C. 102(e) as being anticipated by Ikea et al.

With regard to claim 1, Ikea et al (US 6,439,897) disclose a socket for a semiconductor device comprising:

a contact sheet (14) having a plurality of bumps (14a) to be electrically connected to a terminal group (2a) of a semiconductor device (2),

a pressing member (30)

an accommodation portion (13) for accommodating the semiconductor device disposed on said contact sheet,

and a movement-amount controlling member (13b) wherein said movement-amount controlling member is disposed on top of said contact sheet

With regard to claim 2, Ikea et al disclose socket for a semiconductor device

comprising:

a contact sheet (14) having a plurality of bumps (14a) to be electrically connected to a terminal group (2a) of a semiconductor device (2),

a pressing member (15)

an accommodation portion (13) for accommodating the semiconductor device disposed on said contact sheet.

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a contact sheet (14) having a plurality of bumps (14a) to be electrically connected to a terminal group (2a) of a semiconductor device (2),  
a pressing member (30);  
an accommodation portion (13) for accommodating the semiconductor device disposed on said contact sheet,  
a contact sheet pressing member (15) wherein the contact sheet pressing member engages the contact sheet;

***Claim Rejections - 35 USC § 103***

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claim 4, is rejected under 35 U.S.C. 103(a) as being unpatentable over Ikea et al in view of the admitted prior art.

Ikea et al disclose all of the limitations except for an elastic sheet having the elasticity being disposed directly beneath said contact sheet.

The admitted prior art (Fig. 22) discloses an elastic sheet (6) having the elasticity being disposed directly beneath said contact sheet (8c).

Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to provide an elastic sheet having the elasticity being disposed directly beneath said contact sheet. as taught by the admitted prior art, to enforce a structural integrity of the Ikea et al contact sheet during deforming

Claim 5, 9-12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ikea et al in view of Japanese Patent Application Laid-open No. 11-326379 (1999),

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With regard to claims 5, 9-11 Ikea et al disclose most of the limitations as applied to claim 1 except for a sinking-amount adjustment section being disposed on top of said contact sheet. Japanese Patent Application Laid-open No. 11-326379 (1999) disclose (p. 33, lines 25-28 of the current specification) a sinking-amount adjustment section being disposed on top of said contact sheet.

Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to provide a sinking-amount adjustment section, as taught by Japanese Patent Application Laid-open No. 11-326379, to prevent an excessive pressure on the contacts. With regard to claim 12 when modified by Ikea et al Japanese Patent Application Laid-open No. 11-326379 (1999), disclose (Japanese Patent Application Laid-open No. 11-326379 (1999), p. 34 of the current specification )

Claim 6 is rejected under 35 U.S.C. 103(a) as being unpatentable over Ikea et al in view of Japanese Patent Application Laid-open No. 11-326379 as applied to claim 5 above, and further in view of the admitted prior art.

Ikea et al when modified by Japanese Patent Application Laid-open No. 11-326379 disclose all of the limitations except for an elastic sheet having the elasticity being disposed directly beneath said contact sheet.

The admitted prior art (Fig. 22) discloses an elastic sheet (6) having the elasticity being disposed directly beneath said contact sheet (8c).

Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to provide an elastic sheet having the elasticity being disposed directly beneath said contact sheet., as taught by the admitted prior art, to enforce a structural integrity of the Ikea et al contact sheet during deforming

#### ***Allowable Subject Matter***

Claims 13, 14 are allowed.

Claims 3, 7 and 8 would be allowable if rewritten to include all of the limitations of the base claim and any intervening claims.

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No prior art has been found to anticipate or render obvious the presently claimed subject matter. Specifically, none of the prior art of record discloses the combination of the limitations presented including:

the contact sheet pressing member being formed integral with the pressing member and engaging the contact sheet (claim 3)

the using a plurality of the seats corresponding to a plurality of the bumps to prevent the extensive sinking the contact sheet at a location of the bumps (claims 7, 8, 13, 14).

### ***Response to Arguments***

Applicant's arguments with respect to claims 1, 2, 9 have been considered but are moot in view of the new ground(s) of rejection.

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than **SIX MONTHS** from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Alexander D Gilman whose telephone number is 571 272-2004. The examiner can normally be reached on Monday-Friday, 10:30 a.m. - 8:00 p.m.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Paula A. Bradley can be reached on 571 272-2800 ext. 33. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

07/19/2004

A handwritten signature in black ink that reads "Alex Gilman". The signature is written in a cursive, flowing style.

**ALEXANDER GILMAN  
PRIMARY EXAMINER**